Title (en)

AN IN VITRO METHOD FOR THE CONSTRUCTION OF A DNA LIBRARY

Title (de)

EIN IN-VITRO-VERFAHREN ZUR HERSTELLUNG EINER DNA-BIBLIOTHEK

Title (fr)

METHODE DE PRODUCTION IN VITRO D'UNE BIBLIOTHEQUE D'ADN

Publication

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Application

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Abstract (en)

[origin: WO9841653A1] A method for in vitro construction of a library of recombined homologous polynucleotides from a number of different starting DNA templates and primers by induced template shifts during a polynucleotide synthesis is described, whereby: A. extended primers are synthesized by a) denaturing the DNA templates, b) annealing primers to the templates, c) extending the said primers by use of a polymerase, d) stop the synthesis, and e) separate the extended primers from the templates; B. a template shift is induced by a) isolating the extended primers from the templates and repeating steps A.b) to A.e) using the extended primers as both primers and templates, or b) repeating steps A.b) to A.e), C. this process is terminated after an appropriate number of cycles of process steps A. and B.a), A. and B.b), or combinations thereof. Optionally the polynucleotides are amplified in a a standard PCR reaction with specific primers to selectively amplify homologous polynucleotides of interest.

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